

Listing of Claims

1-30. (Cancelled)

31. (Previously Presented) A substrate for reducing odor, said substrate being porous and comprising a nonwoven, woven, or paper web, said substrate containing colloidal silica nanoparticles configured to adsorb one or more odorous compounds, said silica nanoparticles having an average size of from about 1 to about 50 nanometers and a surface area of from about 50 to about 1000 square meters per gram, wherein the silica nanoparticles are relatively nonporous and thus have a pore volume of less than about 0.4 milliliters per gram.

32-34. (Cancelled)

35. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles have an average size of from about 4 to about 20 nanometers.

36. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles have a surface area of from about 100 to about 600 square meters per gram.

37. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles have a pore volume of less than about 0.3 milliliters per gram.

38. (Original) A substrate as defined in claim 31, wherein the solids add-on level of said colloidal nanoparticles is from about 0.001% to about 20%.

39. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles cover at least about 50% of a surface of said substrate.

40. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles cover at least about 80% of a surface of said substrate.

41. (Original) A substrate as defined in claim 31, wherein said colloidal nanoparticles are coated onto a surface of said substrate, said coating having a thickness of less than about 1 micron.

42. (Original) A substrate as defined in claim 41, wherein said coating has a thickness of from about 2 to about 500 nanometers.

43. (Original) An absorbent article that comprises the substrate of claim 31.

44. (Original) An absorbent article as defined in claim 43, further comprising at least one liquid-transmissive layer and a liquid-absorbent core, wherein said substrate forms at least a portion of said liquid-transmissive layer, said liquid-absorbent core, or combinations thereof.

45. (Original) An absorbent article as defined in claim 44, wherein the absorbent article includes a liquid-transmissive liner, a liquid-transmissive surge layer, a liquid-absorbent core, and a vapor-permeable, liquid-impermeable outer cover, said substrate forming at least a portion of said liner, said surge layer, said absorbent core, said outer cover, or combinations thereof.

46. (Original) A paper product that comprises the substrate of claim 31.

47. (Original) A facemask that comprises the substrate of claim 31.

48. (Previously Presented) A substrate as defined in claim 31, wherein said silica nanoparticles are coated with alumina.

49. (Previously Presented) A substrate as defined in claim 31, wherein said nanoparticles are formed primarily from silica.

50. (Previously Presented) A substrate as defined in claim 31, wherein said substrate has a porosity such that from about 20 to about 500 cubic feet of air is

capable of flowing through 1 square foot of said substrate per minute under a pressure differential of 125 Pascals.

51. (Previously Presented) A substrate as defined in claim 31, wherein said substrate is a paper web.

52. (Previously Presented) A substrate as defined in claim 31, wherein said substrate is a nonwoven web.

53. (New) A substrate as defined in claim 31, wherein said silica nanoparticles consist essentially of silica or alumina coated silica.